Trade Name: PULPDENT ROOT CANAL SEALER POWDER AND LIQUID

1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	Root Canal Sealer Powd	ler and Liquid	
1.2	Application / Use	Dental material for use by	dental professional or	nly.
1.2.2	SIC	851 Human health activity	1	
1.2.3	Use Category	55		
1.3	Manufacturer			
	Pulpdent Corporation 80 Oakland Street P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926-666 Fax: 1 617 926-626 Email: Pulpdent@pulpder	62	
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour / USA)		
1.5	Authorized European Representative			
	International Business Solutions Ltd. 54 Mayfield Ridge Hatch Warren, Basingstoke, RG22 4RS UK	Tel: 07989 407479 / Fax: 01256 350330 Email: <u>s.williams5@btconnect.com</u>		
2.0	Hazards Identification			
2.1	Classification			
2.1.1	Classification according to Regulation (EC) No 1272/2008 [CLP] Powder	Hazard Class	Hazard Category	Hazard Statement
		Eye irritation STOT SE Skin irritation	2 3 2	H319 H335 H315
	Liquid	Eye irritation STOT SE	2 3	H319 H335

Revision Date: May 21, 2014

2.1.2 Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)

Irritant; Xi;

Respiratory sensitization

Skin irritation

Skin sensitization

Powder: R 36/37/38 Liquid: R 36/37/38-42/43 2

1

H315

H317

H334

2.2 GHS Label Elements
Hazard Pictograms





Signal Word: DANGER

Restricted to use by dental professional only.

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Revision Date: May 21, 2014

Hazard Statements

H319: Eye irritation. 2. May cause eye irritation.

H335: STOT SE. 3. May cause respiratory irritation.

H315: Skin irritation. 2. May cause skin irritation.

H317: Sensitization. 1. May cause an allergic skin reaction.

H334: Respiratory sensitization. 1. May cause allergy or asthma symptoms.

Precautionary Statements

P261: Avoid breathing vapor.

P280: Wear protective gloves and eye protection

P342+P311: If experiencing respiratory symptoms, call a poison center or doctor/physician.

P305+P351: If in eyes, rinse cautiously with water for several minutes.

P337+P313: If eye irritation persists, get medical advice/attention.

P302+P352: If on skin, wash with plenty of soap and water.

P333+P313: If irritation or rash occurs, get medical advice/attention.

3.0 Composition

3.1 Chemical characterization of the preparation: Two-part, zinc oxide / eugenol dental cement

3.2 Hazardous ingredients

	CAS Number	Name of the Ingredient	Concentration	Classification according to 67/548/EEC	Classification according to Regulation (EC) No.1278/2008 (CLP).
Powder	1314-13-2	Zinc oxide	40-60%	Irritant; Xi R 3637//38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315
Liquid	97-53-0	Eugenol [2-Methoxy-4-(2- propenyl) phenol]	85-95%	Irritant; Xi, R 36/37/38-42/43	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 Skin sensitization, 1, H317 Respiratory sensitization, 1, H334

4.0 First Aid Measures

-		
4.1	General Information	May be irritating to eyes, respiratory system and skin. Do not inhale vapors. Liquid may cause sensitization by skin contact or inhalation. Show this safety data sheet to medical personnel. Get medical attention in case of uncertainty.
4.2	Inhalation	Move to fresh air. If necessary, administer oxygen / artificial respiration and seek medical attention.
4.3	Skin Contact	Take off contaminated clothing. Wash skin thoroughly with soap and water for 15 minutes.
4.4	Eye Contact	Keep eyelids apart and flush with running water for 15+ minutes. Get medical attention.

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4.5 lr	ngestion	Rinse mouth with water. Do not induce vomiting. Get immediate medical attention. May be irritating to mucous membranes.	
4.6 F	Precautions for first responders	Ventilate the area. Wear eye and skin protection.	
4.7 Ir	nformation for physicians	, ,	
S	Symptoms	Irritation or redness in eyes, throat or on skin. Allergy or asthma symptoms	
F	Hazards	May be irritating to eyes, respiratory system and skin. May cause sensitization by skin contact or inhalation.	
Т	reatment	As above under First Aid.	
5.0 F	Fire Fighting Measures		
5.1 S	Suitable extinguishing media	Foam, carbon dioxide and dry chemical. Water spray may be used to keep fire exposed containers cool.	
5.2 E	Extinguishing media to avoid	Do not use direct water stream	
5.3 S	Special exposure hazards in a fire	Burning liberates carbon monoxide, carbon dioxide and smoke. As with all unsaturated fats and oils, some porous materials (rags, insulation, clay) when wetted with eugenol, may undergo spontaneous combustion.	
5.4 S	Special protective equipment for fire-fighters	A self-contained breathing apparatus should be worn by firefighting personnel. Cool exposed containers with water spray.	
6.0 A	Accidental Release Measures		
6.1 F	Personal precautions.	Ventilate area. Wear gloves, lab coat and safety glasses.	
6.2 E	Environmental precautions	Contain spilled material. Follow all government regulations.	
6.3 N	Method for clean up	Powder: Carefully sweep into dry, covered container. Avoid raising dust. Rinse area with water.	
		Liquid: Absorb or wipe up spill with inert, absorbent material (paper towels or cloths). Collect for disposal in a covered container kept in a cool place. Wash area of spill with soap and water. Spills of Root Canal Liquid leave surfaces very slippery.	
7.0 H	Handling and Storage		
7.1 H	Handling	For use only by dental professionals. Follow good hygiene practices. Do not smoke, eat or drink while using. Cap powder and liquid immediately after use. Avoid cross-contamination of parts.	
7.2 S	Storage	Keep containers tightly closed. Store each part in original container at cool room temperature (< 25°C) and in a dry, well-ventilated area. Avoid direct, strong light, sources of ignition and extremes of temperature (>27°C/80°F, <5°C/40°F). Provided that the material has been stored properly, shelf life for unopened powder is five years from date of manufacture; shelf life for unopened liquid is three years from date of manufacture.	
7.3 S	Specific uses	Professional dental material	
8.0 E	Exposure Controls / Personal Protection		

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8.1	Exposure limit values	Zinc oxide: PEL: 5 mg/m³. TLV: Eugenol: Not established	10 mg/m³.
8.2	Exposure controls		
8.2.1	Occupational exposure controls	No special equipment required uproduct in the quantity provided.	under normal conditions of use of this
8.2.1.1	Respiratory protection	None required. Good general v nuisance dust or airborne vapors	rentilation is sufficient to control any during normal conditions of use.
8.2.1.2	Hand protection	Usual surgical gloves worn by der	ntal staff will limit contact with material.
8.2.1.3	Eye protection	Usual safety glasses worn by den	tal staff.
8.2.1.4	Skin protection	Good personal hygiene and safety practices and wearing a lab coat should protect dental staff from unnecessary exposure to material.	
8.2.1.5	Other controls	Emergency eye wash fountain should be available. Wash hands after use.	
8.2.2	Environmental exposure controls	Powder is inert. Liquid should not be discharged into environment.	
9.0	Physical and Chemical Properties		
9.1	Appearance / Color	<u>Powder</u> Fine powder	<u>Liquid</u> Oily liquid
9.1.1	Color	White	Colorless to pale yellow
9.1.2	Odor	None	Cloves
9.2	Important health, safety and environmental information		
9.2.1	рН	Not applicable	7.0
9.2.2	Boiling point	Not applicable	253°C
9.2.3	Flash point	Not applicable	112°C
9.2.4	Flammability (solid, gas)	Not determined	Not applicable
9.2.5	Explosive properties	Not applicable	Not applicable
9.2.6	Oxidizing properties	Not determined	Not an oxygen donor
9.2.7	Vapor pressure	< 1 mm Hg / 133 Pa	< 0.1 mm Hg
9.2.8	Specific gravity	5.650	1.064
9.2.9	Solubility in water	Nil	Slight
9.2.10	Partition coefficient	Not determined	Not determined
9.2.11	Viscosity	Not determined	Not determined
9.2.12	Vapor density	Not determined	Not determined
9.2.13	Evaporation rate	Not determined	Not determined

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10.0	Stability and reactivity	
10.1	Conditions to avoid	Temperature > 38°C, light, air, cross-contamination.
10.2	Materials to avoid	Powder: Strong oxidizing agents. Liquid: Ferric chloride, potassium permanganate.
10.3	Hazardous decomposition products	Carbon monoxide and carbon dioxide.
10.4	Further information	Eugenol is not pyrophoric, does not react with water, is not an oxygen donor and is shock stable.
11.0	Toxicological information	
11.1	Acute toxicity	Not toxic. Minimal health hazard in the quantities present in this product and under normal conditions of use.
11.2	Irritation and corrosiveness	Both powder and liquid may be irritating to eyes, respiratory system or skin on contact or with prolonged exposure.
11.3	Sensitization	Liquid may be sensitizing. Prolonged or frequent inhalation or skin contact may cause allergic reactions in some susceptible individuals.
11.4	Sub-acute, sub-chronic and prolonged toxicity	Prolonged exposure to large amounts of zinc oxide may cause dermatitis unless good personal hygiene is practiced. Prolonged exposure to powder or liquid may cause eye and respiratory irritation.
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known
11.6	Empirical data	Not available
11.7	Clinical experience	Zinc oxide/eugenol cements, like Root Canal Sealer, have been used successfully in dental procedures for more than 70 years. They are considered to be safe and effective treatment.
12.0	Ecological Information	
12.1	Ecotoxicity	To the best of our knowledge, Root Canal Sealer powder is inert. Root Canal Sealer Liquid should not be discharged into the environment. No other information is available.
13.0	Disposal Considerations	
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.
14.0	Transport Information	
14.1	Restrictions	None. Not regulated.
15.0	Regulatory Information	
15.1	EU	Class IIa medical device under MDD 93/42/EEC.
15.2	US FDA	Class II medical device.

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15.3	Health Canada	Class III medical device	
16.0	Other information		
16.1	List of relevant R phrases	R36/37/38, Irritating to eyes, respiratory system and skin. R42/43, May be sensitizing by inhalation or skin contact.	
16.2	Hazard Statements	 H319: Eye irritation. 2. May cause eye irritation. H335: STOT SE. 3. May cause respiratory irritation. H315: Skin irritation. 2. May cause skin irritation. H317: Sensitization. 1. May cause an allergic skin reaction. H334: Respiratory sensitization. 1. May cause allergy or asthma symptoms. 	
16.3	Precautionary Statements	P261: Avoid breathing vapor. P280: Wear protective gloves and eye protection P342+P311: If experiencing respiratory symptoms, call a poison center or doctor/physician. P305+P351: If in eyes, rinse cautiously with water for several minutes. P337+P313: If eye irritation persists, get medical advice/attention. P302+P352: If on skin, wash with plenty of soap and water. P333+P313: If irritation or rash occurs, get medical advice/attention.	
16.4	Restrictions on use	Root Canal Sealer is to be sold to and used by dental professionals only.	
16.5	Further information	The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.	
16.5	Sources of key data	National Institute for Occupational Safety (NIOSH)	
		US Occupational Safety and Health Administration (OSHA)	
		Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH).	
		Guidance on the compilation of safety data sheets. Version 1.1; December 2011. European Chemicals Agency	
16.6	Information which has been added, deleted or revised.	This Safety Data Sheet has been revised to meet the GHS SDS format and the requirements of Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH). Specifically Sections 2.1, 2.2, 3.2, 16.2, 16.3 have been modified.	